

Industrial Gases

Fourth Quarter

1999

Issued March 2000

MQ325C(99)-4

(Formerly Series No. MQ28C)

Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1997 Manufacturing Profiles, issued August 1999.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: www.stat-usa.gov/.

Note: Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see www.census.gov/epcd/www/naics.html.

Current
Industrial
Reports

Address inquiries concerning these data to Consumer Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Michael Taylor, 301-457-4732.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

U S C E N S U S B U R E A U

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Table 1. Summary of Production of Principal Gases: 1997 to 1999
[Million cubic feet, except as noted]

Quarter and year	Acety- lene 3251201	Argon high purity 325120D021	Carbon dioxide [short tons]			Hydrogen, high and low purity (100%) 325120D pt.	Nitrogen, high and low purity (100%) 3251207	Oxygen, high and low purity (100%) 325120A
			Gas 3251204011	Liquid 3251204021	Solid 3251204031			
1999								
Total.....	4,497	19,834	(S)	7,378,094	(S)	454,698	866,379	690,635
Fourth quarter.....	1,077	5,073	(S)	1,786,567	(S)	121,132	226,965	160,585
Third quarter.....	1,072	4,921	(S)	1,919,003	(S)	116,708	216,075	r/ 155,529
Second quarter.....	1,148	5,004	(S)	1,877,389	(S)	112,440	210,623	194,099
First quarter.....	1,200	4,836	(S)	1,795,135	(S)	104,418	212,716	180,422
1998 1/								
Total.....	4,649	19,443	(S)	8,147,566	283,702	551,914	870,906	676,333
Fourth quarter.....	1,202	4,919	(S)	1,951,146	71,135	146,978	203,455	166,183
Third quarter.....	1,106	4,850	(S)	2,072,086	72,610	141,551	202,501	168,519
Second quarter.....	1,152	4,833	(S)	1,994,325	76,561	136,841	201,418	170,605
First quarter.....	1,189	4,841	(S)	2,130,009	63,396	126,544	263,532	171,026
1997 1/								
Total.....	4,948	17,242	(S)	6,585,772	385,556	525,833	808,183	743,023
Fourth quarter.....	1,388	4,175	(S)	1,841,651	120,677	159,995	176,985	189,641
Third quarter.....	1,165	4,042	(S)	1,595,880	119,864	154,996	175,106	190,082
Second quarter.....	1,149	4,628	(S)	1,659,174	75,590	109,135	227,003	182,722
First quarter.....	1,246	4,397	(S)	1,489,067	69,425	101,707	229,089	180,578

S Does not meet publication standards.

r/Revised by more than 5 percent from previously published data.

1/Data are from Current Industrial Report Series, MA325C(98)-1 (MA28C(98)-1), Industrial Gases, issued March 2000.

Table 2. Quantity of Primary Production of Specified Industrial Gases
[Million cubic feet, unless otherwise noted]

Product code	Product description		Fourth quarter 1999		Third quarter 1999	Fourth quarter 1998
3251201011	Acetylene.....	b/	1,077	b/	1,072	1,202
	Produced for compression, including cylinder and pipeline.....		(S)		(S)	206
3251201021	Produced for pipeline shipment, excluding that shipped to be compressed, and for consumption in same plant.....	a/	969	a/	932	996
3251204011	Carbon dioxide: [short tons] Gas, including amounts produced and liquefied.....		(S)		(S)	(S)
3251204021	Liquid, including amounts produced and used to make dry ice.....	a/	1,786,567	a/	1,919,003	1,951,146
3251204031	Solid (dry ice).....		(S)		(S)	71,135
325120D021	Argon, high purity: Produced for cylinder and bulk delivery and pipeline shipments, and for consumption in same plant.....	a/	5,073	a/	4,921	4,919
	Hydrogen.....	a/	121,132	b/	116,708	146,978
	Gas produced for:					
325120D031	Merchant shipment 1/.....		(D)		(D)	(D)
325120D041	Pipeline and on-site use 1/.....		(D)		(D)	(D)
325120D051	Consumption in same plant.....	a/	43,721	a/	47,564	65,588
	Liquid produced for:					
325120D061	Merchant shipment 1/.....		(D)		(D)	(D)
325120D071	Other shipments or uses 1/.....	a/	77,411	b/	69,144	81,390
	Nitrogen.....	a/	226,965	a/	216,075	203,455
	Gas produced by:					
3251207011	Cryogenic on-site and pipeline 2/.....		(D)		(D)	(D)
3251207021	Noncryogenic processes by industrial gas producing companies, including psa, vpsa, membrane, etc. 2/.....		148,415		137,272	126,748
	Captive uses for consumption in same plant (user owned):					
3251207031	Cryogenic processes 3/.....		(D)		(D)	(D)
3251207041	Noncryogenic processes, including psa, vpsa, membrane, etc. 3/.....		(D)		(D)	(D)
	Liquid produced for:					
3251207051	Merchant shipment.....	a/	64,424	a/	60,870	62,407
3251207061	Consumption in same plant 3/.....	a/	8,757	b/	11,100	4,635
3251207071	Other shipments or uses.....		5,369		6,832	9,666
	Oxygen.....	b/	160,585	b/	155,529	166,183
	Gas produced by:					
325120A011	Cryogenic on-site and pipeline 4/.....		(D)		(D)	(D)
325120A021	Noncryogenic processes by industrial gas producing companies, including psa, vpsa, membrane, etc. 4/.....		121,319	r/	116,472	126,826
	Captive uses for consumption in same plant (user owned):					
325120A031	Cryogenic processes 5/.....		(D)		(D)	(D)
325120A041	Noncryogenic processes, including psa, vpsa, membrane, etc. 5/.....		(D)		(D)	(D)
	Liquid produced for:					
325120A051	Merchant shipment.....	a/	25,296	a/	23,868	26,638
325120A061	Consumption in this plant 5/.....		9,791		10,279	7,146
325120A071	Other shipments or uses.....		4,179		4,910	5,471

D Withheld to avoid disclosing data of individual companies. r/Revised by 5 percent or more from previously published data. S Does not meet publication standards.

1/Product codes 325120D031, 325120D041, 325120D061, and 325120D071 are combined to avoid disclosing data of individual companies.

2/Product codes 3251207011 and 3251207021 are combined to avoid disclosing data of individual companies.

3/Product codes 3251207031, 3251207041 and 3251207061 are combined to avoid disclosing data of individual companies.

4/Product codes 325120A011 and 325120A021 are combined to avoid disclosing data of individual companies.

5/Product codes 325120A031, 325120A041 and 325120A061 are combined to avoid disclosing data of individual companies.

Note: The percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated.

Table 3. Production, Exports, Imports, and Apparent Consumption of Industrial Gases
[Million cubic meters, unless otherwise noted]

Product code	Product description	Manu- facturers' production	Exports of domestic merchan- dise 1/	Percent exports to manu- facturers' net production	Imports for consump- tion 2/	Apparent consump- tion 3/	Percent imports to apparent consump- tion
Third quarter 1999							
3251204	Carbon dioxide, gas, liquid, and solid [metric tons].....	(S)	25,126	(S)	6,013	(S)	(S)
325120D021	Argon.....	139	79	56.7	6	66	8.5
325120D031	Hydrogen.....	3,305	102	3.1	16	3,219	0.5
325120D041							
325120D051							
325120D061							
325120D071							
3251207	Nitrogen.....	6,119	24	0.4	20	6,114	0.3
325120A	Oxygen.....	4,405	49	1.1	3	4,358	0.1
Second quarter 1999							
3251204	Carbon dioxide, gas, liquid, and solid [metric tons].....	(S)	14,919	(S)	3,767	(S)	(S)
325120D021	Argon.....	142	73	51.5	6	75	8.0
325120D031	Hydrogen.....	3,184	79	2.5	26	3,131	0.8
325120D041							
325120D051							
325120D061							
325120D071							
3251207	Nitrogen.....	5,965	31	0.5	40	5,974	0.7
325120A	Oxygen.....	5,497	56	1.0	7	5,448	0.1

S Does not meet the publication standards.

1/Source: Census Bureau report EM 545, U.S. Exports.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/Apparent consumption is derived by subtracting exports from the total of net production plus imports.